Claims

1. The use of compounds of general formulae (I), (II) and (III) wherein

R^1 and R^2 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group optionally substituted with a phenyl group, or

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatoms, which heterocyclic ring is optionally substituted with one or more hydroxy, oxo or benzyl groups,

A represents a phenyl group optionally substituted with one or more C_{1-4} alkyl, C_{1-4} haloalkyl or nitro groups or halogen atoms, or a 5-6 membered heteroaromatic ring containing one or more nitrogen, oxygen or sulfur heteroatoms, optionally having N-oxide structure on the nitrogen heteroatom,

n is zero, 1 or 2,

z is zero or 1,

in compounds of general formulae (I), X represents a halogen atom or $-NR^4R^5$ group, where R^4 and R^5 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group,

in compounds of general formulae (II), X refers to oxygen atom,

R^3 represents a hydrogen atom or a straight or branched C_{1-6} alkyl group,

Y represents a hydrogen atom or hydroxy group, halogen atom or C_{1-22} acyloxy group, with the restriction that if R^4 and R^5 are simultaneously hydrogen atoms, Y is other than hydroxy group,

with the proviso that in compounds of general formulaee (I) and (II) where Y is other than halogen,

a) R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups and/or

b) A is a N-containing heteroaromatic ring, which has N-oxide structure on the nitrogen heteroatom, and/or

c) z is 1,

with the further proviso that if X is halo and Y is hydroxy or acyloxy in compounds of general formulae (I),

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups and

with the proviso for compounds of general formulae (III) that

if R^1 and R^2 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group optionally substituted with a phenyl group,

or together with the nitrogen atom attached thereto form a 5-7 membered saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatoms, then A is a heteroaromatic ring containing oxygen or sulfur heteroatom or an N-containing heteroaromatic ring having N-oxide structure on the nitrogen heteroatom and

if A is a phenyl group optionally substituted with one or more C_{1-4} alkyl, C_{1-4} haloalkyl or nitro groups or halogen atoms, or a 5-6 membered N-containing heteroaromatic ring, then R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups,

and of the salts and optically active forms of the above compounds for the production of pharmaceutical products used in the treatment and/or prevention of vascular diseases or diseases related to vascular disorders.

2. Compounds of general formulae (I) wherein

R^1 and R^2 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group optionally substituted with a phenyl group, or

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatoms, which heterocyclic ring is optionally substituted with one or more hydroxy, oxo or benzyl groups,

A represents a phenyl group optionally substituted with one or more C_{1-4} alkyl, C_{1-4} haloalkyl or nitro groups or halogen atoms, or a 5-6 membered heteroaromatic ring containing one or more nitrogen, oxygen or sulfur heteroatoms, optionally having N-oxide structure on the nitrogen heteroatom,

n is zero, 1 or 2,

z is zero or 1,

X represents a halogen atom or $-NR^4R^5$ group, where R^4 and R^5 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group,

Y represents a hydrogen atom or hydroxy group, halogen atom or C_{1-22} acyloxy group, with the restriction that if R^4 and R^5 are simultaneously hydrogen atoms, then Y is other than hydroxy group,

with the proviso that

a) if Y is hydrogen and/or X is a $-NR^4R^5$ group, where R^4 and R^5 have the above meanings,

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups and/or

A is a N-containing heteroaromatic ring, which has N-oxide structure on the nitrogen heteroatom, or

b) if X is halo and Y is hydroxy or acyloxy,

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups,

and the stereoisomers of the above compounds and their salts.

3. Compounds of general formulae (II) wherein

R^1 and R^2 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group optionally substituted with a phenyl group, or

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatoms, which heterocyclic ring is optionally substituted with one or more hydroxy, oxo or benzyl groups,

A represents a phenyl group optionally substituted with one or more C_{1-4} alkyl, C_{1-4} haloalkyl or nitro groups or halogen atoms, or a 5-6 membered heteroaromatic ring containing one or more nitrogen, oxygen or sulfur heteroatoms, optionally having N-oxide structure on the nitrogen heteroatom,

n is zero, 1 or 2,

z is zero or 1,

X represents an oxygen atom,

R^3 represents a hydrogen atom or a straight or branched C_{1-6} alkyl group,

Y represents a hydrogen atom or hydroxy group, halogen atom or C_{1-22} acyloxy group,

with the proviso that if Y is other than halo,

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups and/or

A is a N-containing heteroaromatic ring, which has N-oxide structure on the nitrogen heteroatom,

and the stereoisomers of the above compounds and their salts.

4. Compounds of general formulae (III) wherein

R^1 and R^2 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group optionally substituted with a phenyl group, or

R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatoms, which heterocyclic ring is optionally substituted with one or more hydroxy, oxo or benzyl groups,

A represents a phenyl group optionally substituted with one or more C_{1-4} alkyl, C_{1-4} haloalkyl or nitro groups or halogen atoms, or a 5-6 membered heteroaromatic ring containing one or more nitrogen, oxygen or sulfur heteroatoms, optionally having N-oxide structure on the nitrogen heteroatom,

n is zero, 1 or 2,

z is zero or 1,

with the proviso that

if R^1 and R^2 independently represent a hydrogen atom or a straight or branched C_{1-6} alkyl group optionally substituted with a phenyl group,

or together with the nitrogen atom attached thereto form a 5-7 membered saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatoms, then A is a heteroaromatic ring containing oxygen or sulfur heteroatom or an N-containing heteroaromatic ring having N-oxide structure on the nitrogen heteroatom and

if A is a phenyl group optionally substituted with one or more C_{1-4} alkyl, C_{1-4} haloalkyl or nitro groups or halogen atoms, or a 5-6 membered N-containing heteroaromatic ring, then R^1 and R^2 together with the nitrogen atom attached thereto form a 5-7 membered, saturated heterocyclic ring optionally containing further nitrogen and/or oxygen heteroatom, which heterocyclic ring is substituted with one or more hydroxy, oxo or benzyl groups,

and the stereoisomers of the above compounds and their salts.

5. N-[3-(1-piperidinyl)propoxy]-pyridin-1-oxide-3-carboxamidine and its salts.

6. N-[3-(1-piperidinyl)propoxy]-pyridin-1-oxide-3-carboximidoyl chloride and its salts.

7. N-[2-hydroxy-3-(1-piperidinyl)propoxy]-N'-n-butyl-pyridin-1-oxide-4-carboxamidine, its stereoisomers, and their salts.

8. N-[3-(1-oxido-1-piperidinyl)propoxy]-3-nitro-benzimidoyl-chloride, its hydrates and salts.

9. 2-chloro-N-[3-(4-oxido-4-morpholinyl)propoxy]-benzimidoyl chloride and its salts.

10. 5,6-dihydro-5-[(1-piperidinyl)methyl]-3-(1-oxido-3-pyridyl)-4H-1,2,4-oxadiazine, its stereoisomers, and their salts.

11. 5,6-dihydro-5-[(4-benzyl-1-piperidinyl)methyl]-3-(3-pyridyl)-4H-1,2,4-oxadiazine, its stereoisomers, and their salts.

12. 5,6-dihydro-5-[(2-oxo-1-piperidinyl)methyl]-3-(3-pyridyl)-4H-1,2,4-oxadiazine, its stereoisomers, and their salts.

13. 5,6-dihydro-5-[(1-piperidinyl)methyl]-3-(1-oxido-3-pyridyl)-4H-1,2,4-oxadiazine, its stereoisomers, and their hydrates and salts.

14. 5,6-dihydro-5-[(1-oxido-1-piperidinyl)methyl]-3-(1-oxido-3-pyridyl)-4H-1,2,4-oxadiazine, its stereoisomers, and their salts.

15. 5,6-dihydro-5-[(4-hydroxy-1-piperidinyl)methyl]-3-(3-pyridyl)-4*H*-1,2,4-oxadiazine, its stereoisomers, and their salts.

16. N-[2-chloro-3-(1-piperidinyl)propoxy]-3-benzimidoyl-chloride hydrochloride, its stereoisomers, and their salts.

17. N-[2-hydroxy-3-(1-piperidinyl)propoxy]-pyridin-1-oxide-3-carboxamide, its stereoisomers, and their salts.

18. Pharmaceutical composition containing a compound of general formulae (I) as active ingredient, where R^1, R^2, A, X, Y, n and z are as defined in Claim 2.

19. Pharmaceutical composition containing a compound of general formulae (II) as active ingredient, where R^1, R^2, R^3, A, X, Y, n and z are as defined in Claim 3.

20. Pharmaceutical composition containing a compound of general formulae (III) as active ingredient, where R^1, R^2, A, n and z are as defined in Claim 4.